

Temeljna literatura za kolegije

Digitalna obrada signala SPIK03

Obrada zvučnih signala SPIE09

Ozren Bilan, v. predavač

1. O. Bilan, *Akustika prostorija, zvučnici, pojačala i spojni vodovi*, ISBN 953-97685-0-0 UDK 681.84 : 534.84, Split, 1998
2. O. Bilan, *Sustavi ozvučenja, snimanje zvuka i digitalna audio tehnika*, ISBN 953-97685-1-9 UDK 681.84:534.84, 2005
3. O. Bilan, *ELEKTROAKUSTIKA Bilan Audio Site*, e-izdanje, ISBN 978-953-97685-2-0 480409018 UDK 372.868.184(072.3) (086) 372.853.484(072.3) (086)
4. O.Bilan, *SPIK03 Digitalna obrada signala*, Sveučilište u Splitu, Split, 2009
5. O.Bilan, *Laboratorijske vježbe MATLAB: SPIK03 Digitalna obrada signala*, Sveučilište u Splitu, Split, 2009
6. O.Bilan, *SPIE09 Digitalna obrada zvučnih signala*, Sveučilište u Splitu, Split, 2009
7. O.Bilan, *Laboratorijske vježbe MATLAB: SPIE09 Digitalna obrada zvučnih signala*, Sveučilište u Splitu, Split, 2009

Preporučena dodatna literatura

Knjige

1. Udo Zölzer, *Digital Audio Signal Processing*, Helmut Schmidt University, Hamburg, Germany
2. R. E. Crochiere, L. R. Rabiner, *Multirate Digital Signal Processing*, Prentice-Hall, 1983, ISBN 0-13-605162-6.
3. Learning MATLAB www.mathworks.com
4. Robert J. Schilling, Sandra L. Harris, *Fundamentals of Digital Signal Processing Using MATLAB*
5. A. Quinquis, *Digital Signal Processing using MATLAB*
6. Howard Demuth, Mark Beale, *Neural Network Toolbox For Use with MATLAB*, <http://www.mathworks.com>
7. T. Dutoit, F. Marques, *Applied Signal Processing A MATLAB-Based Proof of Concept*, Springer
8. S. M. Kay, *Modern Spectral Estimation: Theory and Application*, Prentice Hall, 1988, ISBN 0-13-598582-X.
9. R. Lyons, *Understanding Digital Signal Processing*, Prentice Hall Publishing Co., 2004, ISBN 0-13-108989-7.
10. Vishal Saxena, *Delta-Sigma Converters Design*, Boise Univ.
11. J. M. Sebeson, *Analog and Digital Signal Processing: An Integrated Computational Approach with MATLAB*, DeVry University
12. Sanjit K. Mitra, James F. Kaiser, *Handbook for Digital Signal Processing*, Wiley, 1993, ISBN 0-471-61995-7.
- A. V. Oppenheim, A. S. Willsky, S. H. Nawab, *Signals & Systems*, Prentice-Hall, Inc., 1996, ISBN 0-13-814757-4.
13. V. Oppenheim, R. W. Schafer, *Digital Signal Processing*, Prentice-Hall, Inc., Englewood Cliffs, NJ, 1975, ISBN 0-13-214635-5.
14. V. Oppenheim R. W. Schafer, *Discrete-Time Signal Processing*, Prentice Hall, Englewood Cliffs, New Jersey 07632, 1989,
15. S. J. Orfanidis, *Optimum Signal Processing, Second Edition*, 1989, MacMillan Publishing, USA, ISBN 0-02-9498597.
16. T.W. Parks, *DFT/FFT and Convolution Algorithms: Theory and Implementation*, Wiley, 1985, ISBN 0-47-181932-8.
17. Thomas Parsons, *Voice and Speech Processing*, McGraw-Hill, 1987, ISBN 0-07-048541-0.
18. J. G. Proakis and D. G. Manolakis, *Digital Signal Processing: Principles, Algorithms, and Applications*, MacMillan Publishing, New York, 1992, ISBN 0-02-396815-X.
19. L. R. Rabiner, R. W. Schafer, *Digital Processing of Speech Signals*, Prentice Hall, 1978, ISBN 0-13-213603-1.
20. P. P. Vaidyanathan, *Multirate Systems and Filter Banks*, Prentice-Hall, ISBN 0-13-605718-7.
21. Barry Blessler, J. Kates. "Digital Processing in Audio Signals." In A. V. Oppenheim, ed., *Applications of Digital Signal Processing*, Englewood Cliffs, NJ: Prentice-Hall, 1978. ISBN 0-13-039115-8.
22. Ken C. Pohlmann, *The Compact Disc: A Handbook of Theory and Use*, ISBN 0-89579-234-6.
23. Ken Steiglitz, *A DSP Primer - With Applications to Digital Audio and Computer Music*, Addison-Wesley, 1996, ISBN 0-8053-1684-1.
24. Bateman, W. Yates, *Digital Signal Processing Design*, Computer Science Press, MD, 1989.
25. J. Datta, B. Karley, J. Lane, and J. Norwood, *DSP Filter Cookbook*, Prompt, 2000.
26. P. Lapsley, J. Bier, A. Shoham, and E. A. Lee, *DSP Processor Fundamentals: Architectures and Features*, Berkeley Design Technology, Inc., Fremont, CA, 1996.
27. N. Fliege: *Multirate Digital Signal Processing*, Wiley, 2000.
28. Burrus, C. S. , R. A. Gopinath, H. Guo., *INTRODUCTION TO WAVELETS AND WAVELET TRANSFORMS, A PRIMER*, Upper Saddle River, NJ (USA): Prentice Hall, 1998.
29. Calderbank, A. R. , I. Daubechies, W. Sweldens, B.-L. Yeo, *WAVELET TRANSFORMS THAT MAP INTEGERS TO INTEGERS*, Proceedings of the IEEE Conference on Image Processing. 1996. IEEE Press
30. Daubechies, I., *TEN LECTURES ON WAVELETS*, Philadelphia: SIAM, 1992.CBMS conference applied mathematics 61.
31. Hubbard, B. Burke, *THE WORLD ACCORDING TO WAVELETS*, Wellesley, A K Peters, 1996
32. Polikar, R., *The engineer's ultimate guide to wavelet analysis: The Wavelet analysis*
<http://users.rowan.edu/~polikar/WAVELETS/WTtutorial.html>, 1999

Članci

1. AES10-1991 (ANSI S4.43-1991): *AES Recommended Practice for Digital Audio – Serial Multichannel Audio Digital Interface (MADI)*.
2. AES3-1992 (ANSI S4.40-1992): *AES Recommended Practice for Digital Audio – Serial Transmission Format for Two-Channel Linearly Represented Digital Audio*.
3. M. Andersen: *New Principle for Digital Audio Power Amplifiers*, Proc. 92nd AES Convention, Preprint No. 3226, Vienna, 1992.
4. K. Brandenburg, G. Stoll: *ISO/MPEG-1 Audio: A Generic Standard for Coding of High Quality Digital Audio*, JAES, Vol. 42, No. 10, pp. 780–792, October 1994.
5. J. M. Goldberg, M. B. Sandler: *New Results in PWM for Digital Power Amplification*, Proc. 89th AES Convention, Preprint No. 2959, Los Angeles, 1990.
6. E. Janssen, D. Reefman: *Super Audio CD: An Introduction*, IEEE Signal Processing Magazine, pp. 83–90, July 2003.
7. J. Klugbauer-Heilmeier: *A Sigma Delta Modulated Switching Power Amp*, 92nd AES Convention, Preprint No. 3227, Vienna, 1992.
8. Hawksford, *Design, Process, and Function in High Resolution Audio*, 120th AES Convention, Paris, May 2006
9. Hawksford, *Ultra High-Resolution Audio Spatial Technology for HDTV on DVD*, 10th AES Japanese Regional Convention, Tokyo
10. Hawksford, *Noise reduction in speech applications*, The electrical engineering and applied signal processing series, CRC Press LLC, ISBN 0-8493-0949-2, 2002
11. Hawksford, *Ultra High-Resolution Audio Formats for Mastering and archival applications*, JAES, vol. 55, no. 10, 2007
12. S. P. Lipshitz, J. Vanderkooy: *Why 1-Bit Sigma-Delta Conversion is Unsuitable for High-Quality Applications*, Proc. 110th Convention of the AES, Preprint No. 5395, Amsterdam, 2001.
13. J. Vanderkooy, S. P. Lipshitz: *Towards a Better Understanding of 1-Bit Sigma-Delta Modulators – Part 1*, Proc. 110th Convention of the Audio Engineering Society, Preprint No. 5398, Amsterdam, 2001.
14. S. P. Lipshitz, J. Vanderkooy: *Towards a Better Understanding of 1-Bit Sigma-Delta Modulators – Part 2*, Proc. 111th Convention of the Audio Engineering Society, Preprint No. 5477, New York, 2001
15. S. P. Lipshitz, J. Vanderkooy: *Towards a Better Understanding of 1-Bit Sigma-Delta Modulators – Part 3*, Proc. 112th Convention of the AES, Preprint No. 5620, Munich, 2002.
16. J. Vanderkooy, S. P. Lipshitz: *Towards a Better Understanding of 1-Bit Sigma-Delta Modulators – Part 4*, Proc. 116th Convention of the AES, Preprint No. 6093, Berlin, 2004.
17. M. Streitenberger, H. Bresch, W. Mathis: *A New Concept for High Performance Class-D Audio Amplification*, Proc. AES 106th Convention, Preprint No. 4941, Munich, 1999.
18. M. Streitenberger, F. Felgenhauer, H. Bresch, W. Mathis: *Zero Position Coding (ZePoC) – A Generalised Concept of Pulse-Length Modulated Signals and its Application to Class-D Audio Power Amplifiers*, Proc. AES 110th Convention, Preprint No. 5365, Amsterdam, 2001.
19. U. Zölzer, N. Fliege: *Logarithmic Spaced Analysis Filter Bank for Multiple Loudspeaker Channels*, Proc. 93rd AES Convention, Preprint No. 3453, San Francisco, 1992.
20. D. De Koning, W. Verhelst: *On Psychoacoustic Noise Shaping for Audio Requantization*, ICASSP-03, Vol. 5, pp. 453–456, April 2003.
21. M. A. Gerzon, P. G. Craven: *Optimal Noise Shaping and Dither of Digital Signals*, Proc. 87th AES Convention, Preprint No. 2822, New York, October 1989.
22. M. Guillemard, C. Ruwwe, U. Zölzer: *J-DAFx – Digital Audio Effects in Java*, Proc. 8th Int. Conference on Digital Audio Effects (DAFx-05), pp. 161–166, Madrid, 2005.
23. C. R. Helmrich, M. Holters, U. Zölzer: *Improved Psychoacoustic Noise Shaping for Requantization of High-Resolution Digital Audio*, AES 31st International Conference, London, June 2007.
24. S. P. Lipshitz, J. Vanderkoy: *Digital Dither*, 81st AES Convention, Preprint No. 2412, Los Angeles, November 1986.
25. S. P. Lipshitz, R. A. Wannamaker, J. Vanderkoy: *Quantization and Dither: A Theoretical Survey*, JAES, Vol. 40, No. 5, pp. 355–375, May 1992.
26. S. P. Lipshitz, R. A. Wannamaker, J. Vanderkoy: *Dithered Noise Shapers and Recursive Digital Filters*, Proc. 94th AES Convention, Preprint No. 3515, Berlin, March 1993.
27. J. Vanderkooy, S. P. Lipshitz: *Digital Dither: Signal Processing with Resolution Far Below the Least Significant Bit*, Proc. AES Int. Conf. on Audio in Digital Times, pp. 87–96, May 1989.
28. R. A. Wannamaker: *Psychoacoustically Optimal Noise Shaping*, JAES, Vol. 40, No. 7/8, pp. 611–620, July/August 1992.
29. R. A. Wannamaker, S. P. Lipshitz, J. Vanderkooy, J. N. Wright: *A Theory of Nonsubtractive Dither*, IEEE Trans. Signal Processing, Vol. 48, No. 2, pp. 499–516, 2000.
30. J. C. Candy, G. C. Temes, Ed.: *Oversampling Delta-Sigma Data Converters*, IEEE Press, Piscataway, NJ, 1992.
31. K. Chao et al: *A High Order Topology for Interpolative Modulators for Oversampling A/D Converters*, IEEE Circuits and Syst., Vol. CAS-37, March 1990.
32. M. Guillemard, C. Ruwwe, U. Zölzer: *J-DAFx – Digital Audio Effects in Java*, Proc. 8th Int. Conference on Digital Audio Effects (DAFx-05), pp. 161–166, Madrid, 2005.